April 3, 1973
Preliminary Copy
University of Idaho
Soil Conservation Service

Taney Silt Loam 65 Ida 0507

General Site Characteristics

Location -- Benewah County, Idaho, McClellan Watershed, 700 feet south and 150 feet west of the northeast corner of the SE½ in the NE½, NE½, section 18, T. 46 N., R. 5 W.; described -- August 13, 1965 by

; topography -- rolling loess plain, smooth side slope,

3-7 percent slope; elevation -- 2720 feet; aspect -- north - northwest; parent -- loess with some slope wash influence;
drainage -- moderately well; erosion -- nil; permeability -- slow to very slow; vegetation or use -- Douglas fir, Ponderosa pine, ocean spray, tall shrub; classification -- Typic Fragiumbrepts, coarse-silty, mixed, frigid.

Pedon Description

All 0-2 inches. Dark grayish brown (10YR 4.2/1.8) broken, dark grayish brown (10YR 4/1.8) crushed, silt loam, very dark brown (10YR 2/2) crushed, moist; weak fine platy to weak fine granular structure; friable, slightly sticky and slightly plastic; noncalcareous; abundant micro, very fine, and fine roots; many micro and very fine interstitial pores; abrupt smooth boundary.

A12 2-8.5 inches. Grayish brown (10YR 5/2.4) broken, brown (10YR 4.8/2.8) crushed, silt loam, dark brown (10YR 2.6/3) crushed, moist; weak medium subangular blocky structure; friable, slightly sticky and slightly plastic; noncalcareous; abundant micro and very fine and few fine roots; many very fine tubular and interstitial pores; common hard black MnO₂ concretions and charcoal; many bleached silt grains; clear smooth boundary.

AB 8.5-13 inches. Grayish brown (10YR 5.4/2.4) broken, brown (10YR 5/3) crushed, silt loam, dark brown (10YR 3/3.4) broken, moist, dark brown (10YR 3/3) crushed, moist; weak medium subangular blocky structure; firm, slightly sticky and slightly plastic; noncalcareous; abundant micro and

very fine and common fine roots; many very fine and fine tubular and interstitial pores; many 1-3 mm hard black MnO₂ concretions; many silt grains around and within peds; clear smooth boundary.

B2 13-18 inches. Brown (10YR 5.4/2.6) broken, brown (10YR 4.8/2.8) crushed, silt loam, dark brown (10YR 3/3.4) broken, moist, dark brown (10YR 3/3) crushed, moist; weak to moderate medium subangular blocky structure; firm, slightly sticky and slightly plastic; noncalcareous; plentiful micro and very fine and few fine roots; many very fine and fine tubular and interstitial pores; many 1-3 mm hard black MnO₂ concretions; extensive bleached silt grains around and in peds; clear smooth boundary.

18-25 inches. Pale brown (10YR 5.6/2.6) broken, pale brown (10YR 5.6/3) crushed, silt loam, dark brown (9YR 3/3.4) broken, moist, dark brown (10YR 3.6/3) crushed, moist; weak medium subangular blocky structure; hard, firm, slightly sticky and slightly plastic; noncalcareous; plentiful micro and very fine and common fine roots; many very fine and fine tubular and interstitial pores; many 1-3 mm hard black MnO₂ concretions; abrupt wavy boundary.

A'2 25-28 inches. Light gray (10YR 7/2) broken and crushed, silt, grayish brown (10YR 5/2.4) broken, moist, brown (10YR 4.6/2.8) crushed, moist, brown (10YR 5/3) remnants of B material; massive, tend to prismatic in lower part; hard, friable, slightly sticky and slightly plastic; noncalcareous; few very fine roots; few micro and very fine tubular pores; many concretions; abrupt wavy boundary.

B'21tx 28-36 inches. Yellowish brown (9YR 5/4) crushed, light gray (10YR 7/1.6) coats, silty clay loam, yellowish brown (10YR 5/4) crushed, moist; moderate to strong medium prismatic structure; extremely hard, very firm, very sticky and plastic; noncalcareous; flattened roots matted on ped surfaces; many very fine and fine tubular and many very fine interstitial pores; medium continuous clay films on vertical and horizontal pore surfaces; many 1 mm hard

black concretions; many frosted surfaces around and within pores are distinct; clear smooth boundary.

B'22tx 36-45 inches. Light yellowish brown (10YR 6/4) broken, silt loam, yellowish brown (10YR 5/4) crushed, moist; moderate medium prismatic structure; extremely hard, very firm, very sticky and plastic; noncalcareous; flattened roots matted on ped surfaces; many very fine and fine tubular and many very fine interstitial pores; thin and medium continuous clay films on vertical and horizontal pore surfaces; many 1 mm hard black concretions; many splotches of MnO₂ stains; many bleached areas around peds; clear smooth boundary.

B'23tx 45-53 inches. Pale brown (10YR 6/3) broken, silt loam, yellowish brown (10YR 5/4) crushed, moist; weak medium and coarse prismatic to moderate medium and coarse subangular blocky structure; very hard, very firm, very sticky and plastic; noncalcareous; flattened roots matted on ped surfaces; many very fine and fine tubular and very fine interstitial pores; thick continuous clay films on vertical and horizontal pore surfaces; many 1 mm hard black concretions; some MnO₂ splotches and A2 splotches; clear smooth boundary.

B'3t 53-62 inches. Pale brown (10YR 6/3) broken, silt loam, yellowish brown (10YR 5/4) crushed, moist; weak medium prismatic structure; hard, firm, sticky and plastic; noncalcareous; flattened roots matted on ped surfaces; many very fine and fine tubular and very fine interstitial pores; thin continuous clay films on vertical and horizontal pore surfaces; many 1 mm hard black concretions; silt coats.

65 Ida 0507 Chemical characterization and physical analysis Tainprofile

	<u></u>	Depth	рН	pН	2			(Saturation	extract	me/1000	gms so	011
No.	Horizon	in.	Paste	1:5	ECx10 ³	Ca	Mg	Na	<u>K</u>	co ₃	нсо	C:	l <u>so</u> ,
•	411	0.0	<i>(</i> 0 <i>r</i>		0.0								
1	A11	0-2	6.05		.3 3								
2	A12	2-8.5	5.60		.28								
3	AB	8.5-13	5.80		.20								
4	В2	13-18	5.80		.15								
5	вз	18-25	5 . 75		.13								
6	A ₁ 2	25-28	5.80		.10								
7	B_1^121 tx	28-36	5.10		.10								
8	B ₁ 22tx	36-45	5,40		.10								
9	$B_1^1 23 tx$	45-53 <u>.</u>	5.70		.10								
10	B ¹ 3t	53-62 ^T	6.00		.16								

Exchange	geable i	ons me/1	l00 gms		C.E.C.	Base			O.M.	N		
Ca	Mg	Na		Ħ	meq/100	Sat.% Gyp.	CaCO ₃	E.S.P.	% 	%	C:N	Soil:Rx ratio
		-,,,,										
13.3	2.4	.1	1.1	12.9	25.1	56.8			6.49	.214	17.6	
8.6	1.6	.1	. 5	12.9	20.7	45.8			3.73	.145	15.0	
8.8	1.6	.1	.5	8.7	17.0	56.0			1.87	.088	12.4	
8.6	1.7	.1	.5	8.2	16.6	57.2			1.62	.082	11.5	
.8.4	2.0	.1	.4	6.8	15.6	61.5			1.35	.075	10.5	
6.6	1.8	.1	.2	3.1	11.1	73.6			.42	.031		tr
15.0	5.7	.3	.3	8.2	27.0	72.1			.36	,031		tr
14.4	5.4	.4	.3	6.7	26.0	75.4			.22	.027	4.8	tr
14.4	5.5	.5	.3	5.1	24.1	80.1			.25	.027	5.3	
15.4	5.6	.5	.3	4.5	25.7	82.9			.21	.028	4.4	

Profile: 65 Ida 0507

.14

.14

45-53

53-62

.08

.21

.23

	Gravel &									
No.	VCS	CS	MS	FS	VFS	TS	TSi	TC	Stone, etc.	Texture
	2-1.0	1-0.5	0.5-0.25	0.25-0.05	0.1-0.05		0.05-0.002	< 0.002	> 2mm	Class
0- 2	-	.16	.32	1.77	.31	2.57	81.26	16.17	none	Silt loam
2- 8.5	-	.05	.20	1.83	4.15	6.24	76.92	16.85	none	Silt loam
5-13	-	.01	.15	1.85	5.67	7.68	75.23	17.09	none	Silt loam
.3-18	-	.07	.17	1.77	4.02	6.03	75.68	18.29	none	Silt loam
.8-25	.09	.20	.27	1.67	4.31	6.54	75.72	17.73	none	Silt loam
25-28	-	.14	.26	1.68	4.36	6.44	84.19	9.37	none	Silt
8-36	.02	.08	.07	.43	2.67	3.26	63.83	32.91	none	Silty clay lo
6-45	_	.02	.06	.33	1.81	2.23	73.52	24.25	none	Silt loam

2.63

5.17

1.86

3.90

. 54

.68

74.04

70.64

23.33

24.19

none

none

Date: September 29, 1969

Silt loam

Silt loam